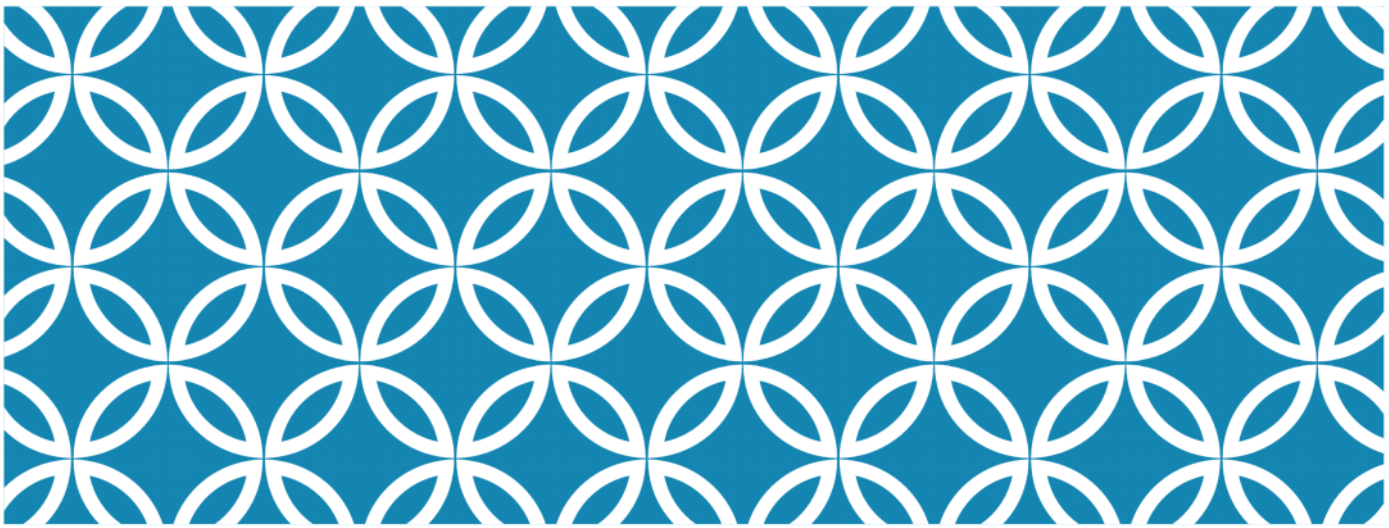
Monday, October 24, 2016 7:45 AM



LESSON 5.3/6.1 REVIEW(QUIZ TOMORROW)

Goal: To find, graph, identify key features of linear functions mathematically and in real world context.

STATION 1

Write both explicit rules and the recursive rule for the given the sequence.

1) $4, 6, 8, 10, \ldots$

2) $45, 42, 39, 36, \ldots$

3) $-5, -11, -17, -23, \ldots$

4) $-34, -29, -24, -19, \ldots$

5) $35, 43, 51, 59, \ldots$

STATION 2

Find the 5th term in the sequence given the rule.

1) $f(n) = -3n + 54$

2) $f(1) = 13;\ \ f(n) = 6 + f(n-1)$

3) $f(n) = -2(n-1) + 9$

4) $f(n) = 10n - 32$

5) $f(n) = -10;\ \ f(n) = -4 + f(n-1)$

STATION 3

Graph the equation. Use a table to help you graph.

1) $y = 2x - 4$

2) $x = 3$

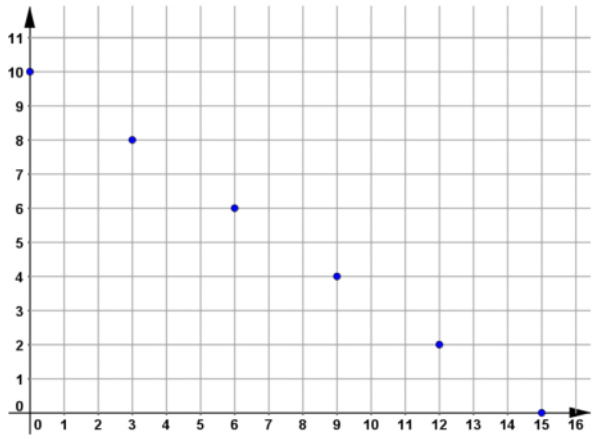
3) $y = -3x + 8$

4) $y = -4$

5) $y = 3x + 1$

STATION 4 Given the graphs, state the domains.

1)



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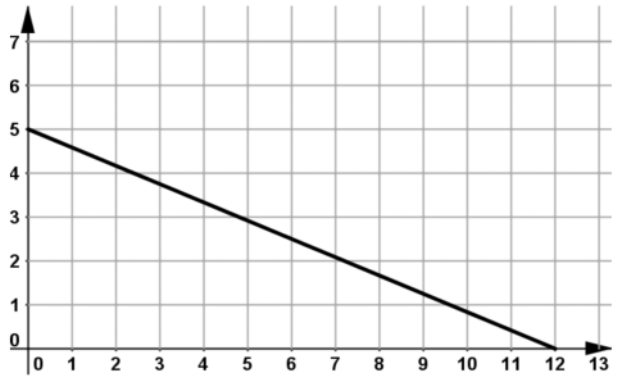

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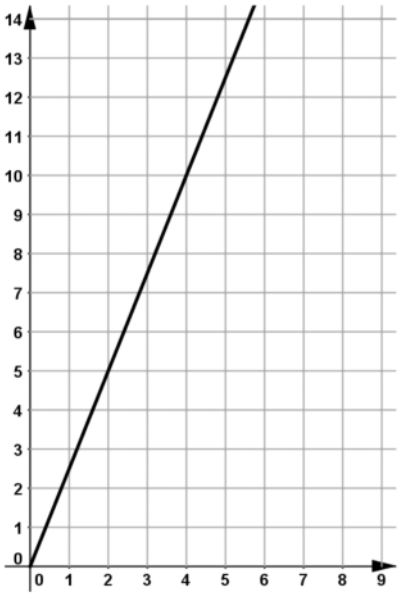
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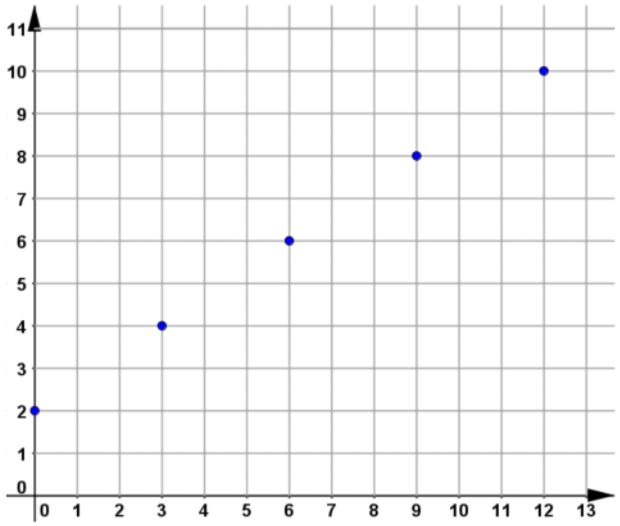
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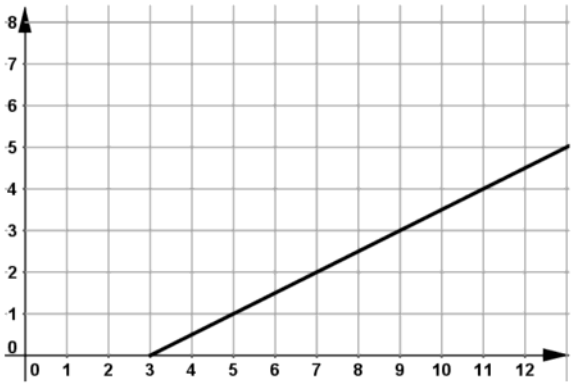
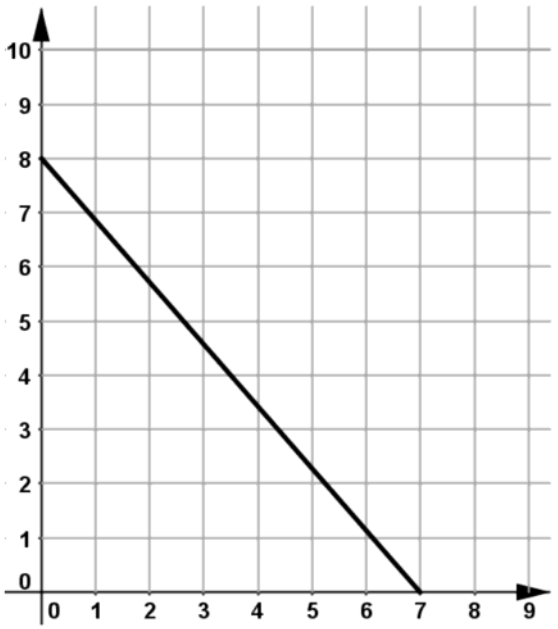
5) 

6) 

PROBLEM 1: AS A CLASS

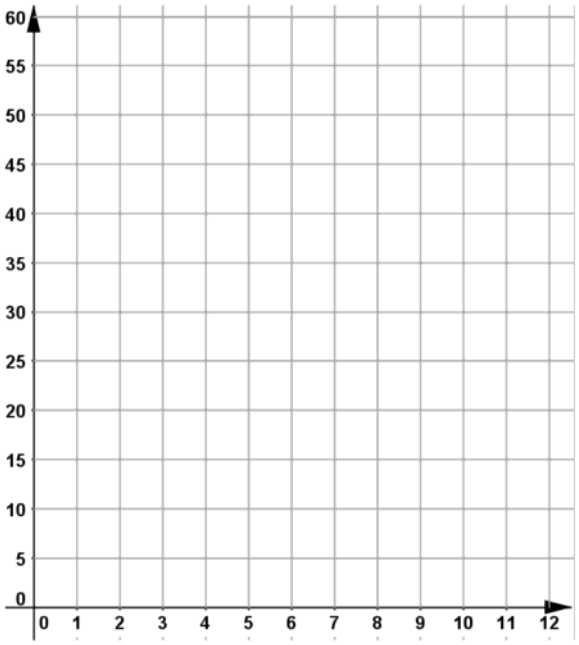
Jimbo goes to a go-cart track. He spend $3 per lap and $6 to enter the go-cart track. He only has $24 to spend at the go-cart track.

Determine the domain of the situation above.

PROBLEM 1A: AS A CLASS:

Mary gives James 20 action figures as a surprise gift. He does not like action figures, so he decides to sell them on Ebay. He sells 2 action figures on Ebay each week.. A function relating the values of the number of action figures , $v(n)$, and the number of weeks n is given as $v(n) = 20 - 2n$.

Graph this and state the domain.



ANSWERS FOR THE STATIONS IN THE NEXT SLIDES

STATION 1

Write both explicit rules and the recursive rule for the given the sequence.

1) $4, 6, 8, 10, \ldots$ $f(n) = 2n + 2$ $f(n) = 2(n-1) + 4$ $f(1) = 4$; $f(n) = 2 + f(n-1)$

2) $45, 42, 39, 36, \ldots$ $f(n) = -3n + 48$ $f(n) = -3(n-1) + 45$ $f(1) = 45$; $f(n) = -3 + f(n-1)$

3) $-5, -11, -17, -23, \ldots$ $f(n) = -6n + 1$ $f(n) = -6(n-1) - 5$ $f(1) = -5$ $f(n) = -6 + f(n-1)$

4) $-34, -29, -24, -19, \ldots$ $f(n) = 5n - 39$ $f(n) = 5(n-1) - 34$ $f(1) = -3$ $f(n) = 5 + f(n-1)$

m $f(n) = 8n + 27$ $f(n) = 8(n-1) - 34$ $f(1) = 34$ $f(n) = 8 + f(n-1)$

STATION 2

Find the 5th term in the sequence given the rule.

1) $f(n) = -3n + 54$ $f(5) = 39$

2) $f(1) = 13;\ f(n) = 6 + f(n-1)$ $f(5) = 37$

3) $f(n) = -2(n-1) + 9$ $f(5) = 1$

4) $f(n) = 10n - 32$ $f(5) = 18$

5) $f(n) = -10;\ f(n) = -4 + f(n-1)$ $f(5) = -26$

STATION 3

Graph the equation. Use a table to help you graph.

1) $y = 2x - 4$

2) $x = 3$

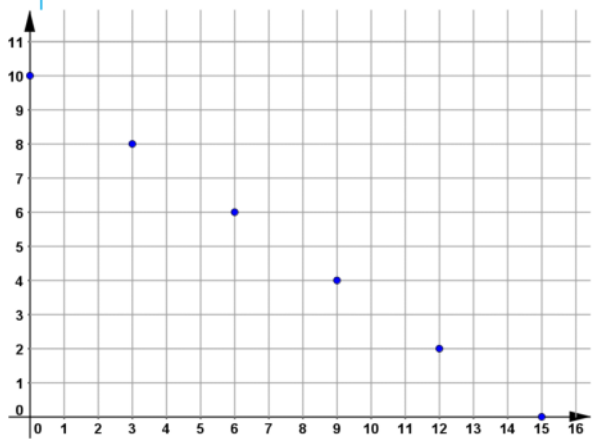
3) $y = -3x + 8$

4) $y = -4$

5) $y = 3x + 1$

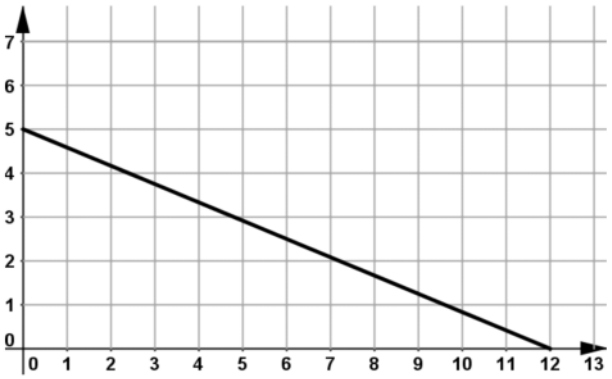
STATION 4 Given the graphs, state the domains.

1)



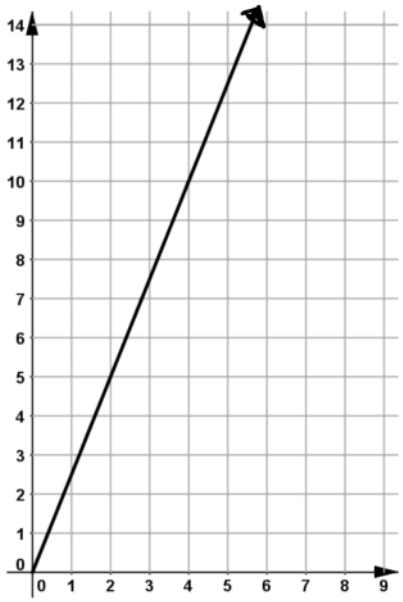
Domain: $\{0, 3, 6, 9, 12\}$

2)



Domain: $0 \leq x \leq 12$

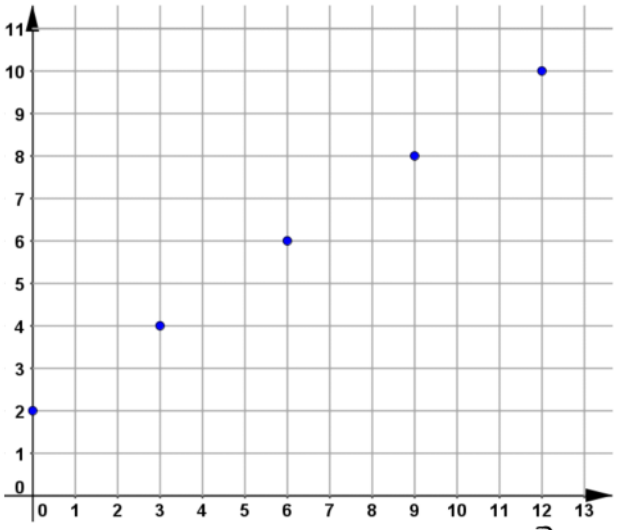
3)



Domain: $x \geq 0$

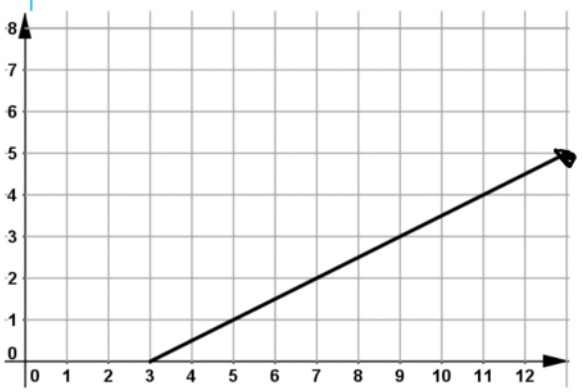
$0 \leq x \leq \infty$

4)



Domain: $\{0, 3, 6, 9, 12\}$

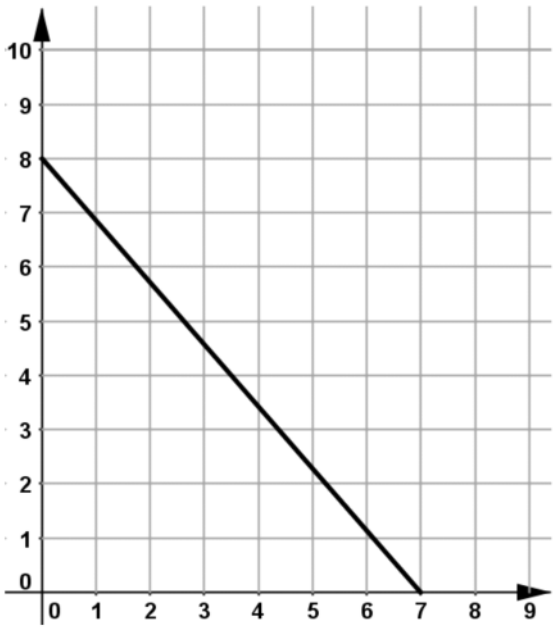
5)



Domain: $x \geq 3$

$3 \leq x \leq \infty$

6)



Domain: $0 \leq x \leq 7$